ta Category	Resource Topic	Organization	Program	Staff contact	Geographic coverage	Data type	Date(s) of record	Nominal mapping scale	Software platform	Comments	On internet
bitats			N. 11 (P. 20	,	ISan Francisco Bay	polygon	H002	1:24,000	IARC/INFO		IV
	Eelgrass beds	California State Lands Commission	NMFS Report						ARC/INFO		ļ. —
	Shallow water fish habitat	California State Lands Commission			San Francisco/San Pablo/Honker Bays	polygon		1:80,000	1		<u> </u> '
	Natural communities - Delta	DWR Central District Delta GIS Program	Delta Levees Subventions Program (SB34)	Kent Nelson	Legal Delta	polygon	various	1:24,000	Geo/SQL		N
	Habitat mitigation areas - Delta	DWR Central District Delta GIS Program	Delta Levees Subventions Program (SB34)	Kent Nelson	Legal Delta	polygon/ line		1:24,000	Geo/SQL		N
	Levee habitat types - Delta	Harding Lawson Associates	Delta Levees Subventions Program (SB34)		Legal Delta	polygon	1991	1:1,000		privately held, may be available for a fee	N
	Wetlands - Bay/Delta	CEDR, UC Berkeley	San Francisco Bay/Delta Geodatabase	Howard Foster	Bay/Delta (by 7.5' quad, incomplete)	raster	1985	1:24,000	GRASS		view only
	Wetlands - North Delta	DWR Delta Planning Branch	North Delta Program	Ray McDowell	North Delta	raster, polygon	1991, 1992	1:9,600	GRASS, ARC/INFO		N
		San Francisco Estuary Institute			Bay / Delta downstream from Broad Slough	polygon	1985 (NWI base)	1:24,000	ARC/INFO		N
	Seasonal wetlands - North Bay		SF Bay Area Ecosystem Goals Project	Ted Daum	North Bay (Carquinez Straight - San Rafael Bridge)	polygon	1985	1:12,000	ARC/INFO		N
	Wetlands - Yolo Basin	Jones & Stokes Associates	Central Valley Habitat Joint Venture	Bruce Boyd	Yolo Basin	polygon	various	1:24,000	ARC/INFO		N
	Wetlands - Central Valley		Central Valley Wetland Mapping Project		Central Valley	polygon	various	1:100,000			N
	Wetlands - California	USFWS	National Wetland		California (by 7.5'quad, incomplete	polygon	various	1:24,000	ARC/INFO		Y (DLGs
	Special-status natural communities	DFG Natural Heritage Division	California Natural Diversity Data Base	Patrick Gaul	California	region, point	various	1:24,000	ARC/INFO	no public distribution	N
	Native vegetation - Stone	Bureau of	Stone Lakes Wildlife	Chuck	Southwestern Sacramento	polygon		1:48,000			N
oric habitats	Lakes Study Area	Reclamation	Refuge Feasibility Study	Johnson	County		<u> </u>	<u> </u>	l.,,	L	J
Offic maximus	Historic tidal wetlands	CEDR, UC Berkeley	San Francisco Bay/Delta Geodatabase	Howard Foster	12 Bay - Delta counties	raster	1851-1897	1:125,000	GRASS		view only
	Historic vegetation - Yolo Basin	Jones & Stokes Associates	Central Valley Habitat Joint Venture	Bruce Boyd	Yolo Basin	polygon	various	1:24,000	ARC/INFO		N
		DWR Northern District	SB 1086	Stacey Cepello	Sacramento River from Verona to Keswick	polygon			Geo/SQL		N
ies habitats	Opper Sacrament rives	District		ОСРСКО	Treiona to resmon		·				
cies ilubitats	American shad habitat	California State Lands Commission			San Pablo/Suisun Bay	polygon	1992	1:80,000	ARC/INFO		Υ
	Young chinook salmon	California State Lands Commission			South San Pablo Bay	polygon	1992	1:80,000 and 1:24,000	ARC/INFO		Y
	habitat Potential clapper rail	California State			San Francisco Bay Estuary	polygon	1979	1:24,000	ARC/INFO		Y
	habitat	Lands Commission	ļ		L	J			<u></u>	1	
cies occurrences		DWR Central District Delta GIS Program	Delta Levees Subventions Program (SB34)	Kent Nelson	Legal Delta	point	various	1:24,000	Geo/SQL		N
	Special-status animal and plant species		California Natural Diversity Data Base	Patrick Gaul	California	region/ point	various	1:24,000	ARC/INFO	no public distribution	N
		DFG (DWR)	IESP	Lee Mecum	San Pablo Bay - Delta (San Pablo Bay - Hood - Stockton)		1972 - present	N/A (50 points)	currently not in GIS, can be implemented		N
	Salmon smolts and juveniles (and physical parameters)	USFWS (DFG)	IESP	Pat Brandes/ Spencer Hovekamp	Detta - Sacramento River (Benicia - Princeton - Mossciale)	points	1991 - present (portions started in 1978)	N/A (40 points)	currently not in GIS, can be Implemented		N

Lee Miller

Striped bass (eggs, larvae, adults)

DFG

IESP

San Pablo Bay - Delta (San points Pablo Bay - Rio Vista -Stockton)

1959 (summer adults) N/A (147 - 190 1968 (eggs, larvae) points) 1967 (winter adults) -

currently not in GIS, can be implemented

Item 4 Attachment

			Tal	ole A-1. Continued						,
Delta smelt	DFG, DWR, UC DAVIS, USFWS, USBR	IESP	Geir Aasen, Dale	Pablo Bay - Knights Landing - Tracy, Byron)	points	1992 - present (portions from 1959)	N/A (174 points)	portions in GIS		N
Fish and crustaceans	DFG	IESP (Delta Outflow/San Francisco Bay Study)	Kathy Hieb	Bay - Delta (South Bay - Threemile Slough - Antioch	points	1980 - present	N/A (85 points)	currently not in GIS, can be implemented		N
Entrainment of eggs, tarvae and fish (+ physical parameters)	DFG, DWR	IESP (Delta Entrainment and Delta Agricultural Diversion Evaluation)	Stephani Spaar	Delta	points	1985 - present	N/A (12 points)			N
Delta Canal Service Areas	CEDR, UC Berkeley	San Francisco Bay/Delta	Howard	12 Bay - Delta counties	raster	1987	1:100,000	GRASS		view only
County General Plans	CEDR, UC Berkeley	San Francisco Bay/Delta	Howard	12 Bay - Delta counties	raster	1980-1990	1:100,000	GRASS		view only
Farmland (according to importance)	Department of Conservation	Farmland Mapping and Monitoring Program	Greg		polygon	1992, preliminary 1994 data may be available in Spring	1:24,000	Intergraph		N
Crop types - Delta	DWR Statewide Planning	Crop Mapping Program	Tom Hawkins	Legal Delta	polygon	1991	1:24,000	Geo/SQL		N
Crop types - Central Valley	DWR Statewide Planning	Crop Mapping Program	Tom Hawkins	Most of Central Valley by county	polygon	Yolo Co. 1989, Sacramento Co. 1993, San Joaquin 1988, Others at	1:24,000	Geo/SQL		N
Delta levee maintenance information		Subventions Program	Kent Nelson	Legal Delta	polygon/ line	various	1:24,000	Geo/SQL		N
Land use - Stone Lakes Study Area	Bureau of Reclamation	Stone Lakes Wildlife Refuge Feasibility Study	Chuck Johnson	Southwestern Sacramento County	polygon		1:48,000			N
Property ownership - Upper Sacramento River	DWR Northern District	SB 1086	Stacey Cepello	Sacramento River from Verona to Keswick	polygon			Geo/SQL		N
Public lands (ownership)	Teale Data Center		Pam Leonard	California	polygon	various	1:100,000	ARC/INFO		N
Roads - California	Teale Data Center		Pam Leonard	California	line	various	1:100,000	ARC/INFO		N
Railroads and transmission lines - California	Teale Data Center		Pam Leonard	California	line	various	1:100,000	ARC/INFO		N
	2010 0 - 1 - 1 51 - 1 - 1	ID-#-1	De ant	Local Delta	Incheson	Lada	14-24-000	ICM/SOI		N
levee miles) - Delta		Subventions Program	Nelson	Legai Della	polygon	various		Georgia		
Statutory Defined Delta	Department of Conservation	Farmland Mapping and Monitoring Program	Greg Posely	Delta	polygon		1:24,000	Intergraph		N
Cities - California	Teale Data Center		Pam Leonard	California	line	1990	1:100,000	ARC/INFO		N
Counties - California	Teale Data Center		Pam Leonard	California	line	1990	1:100,000	ARC/INFO		N
	CEDR, UC Berkeley			12 Bay - Delta counties	raster		1:250,000DEMS	GRASS		view only
Lands below 1 foot	CEDR, UC Berkeley	San Francisco Bay/Delta	Howard	12 Bay - Delta counties	raster	1987	1:100,000	GRASS		view only
Basins - Bay/Delta	CEDR, UC Berkeley	San Francisco Bay/Delta	Howard	12 Bay - Delta counties	raster	1986 (base:1978)	1:100,000	GRASS		view only
		San Francisco Bay/Delta Geodatabase	Howard Foster	•	raster					view only
Drainage specific watersheds - Bay/Delta	CEDR, UC Berkeley	San Francisco Bay/Delta Geodatabase	Howard Foster	12 Bay - Delta counties	raster	1975 & 1987 (base:1972)	·			view only
islands - Delta	CEDR, UC Berkeley	San Francisco Bay/Delta Geodatabase	Howard Foster	12 Bay - Delta counties	raster	1987	1:800,000	GRASS		view only
Watersheds - California	Teale Data Center	CALWATER	Pam Leonard	California			<u> </u>			N
Principal surface waters	CEDR, UC Berkeley			12 Bay - Delta counties	raster		1:24,000 & 1:52,000	GRASS		view only
	Fish and crustaceans Entrainment of eggs, tarvae and fish (+ physical parameters) Delta Canal Service Areas County General Plans Farmland (according to importance) Crop types - Delta Crop types - Delta Crop types - Central Valley Delta levee maintenance information Land use - Stone Lakes Study Area Property ownership - Upper Sacramento River Public lands (ownership) Roads - California Railroads and transmission lines - California Reclamation districts (incl. levee miles) - Delta Statutory Defined Delta Cities - California Counties - California Elevation (1 m intervals) - Bay/Delta Lands below 1 foot elevation contour - Delta Basins - Bay/Delta Watersheds - Bay/Delta Drainage specific watersheds - Bay/Delta Islands - Delta Watersheds - California	DAVIS, USFWS, USBR Fish and crustaceans Entrainment of eggs, tarvae and fish (+ physical parameters) Delta Canal Service Areas CEDR, UC Berkeley County General Plans Farmland (according to importance) Crop types - Delta Crop types - Delta DWR Statewide Planning Crop types - Central Valley Delta levee maintenance information Land use - Stone Lakes Study Area Property ownership - Upper Sacramento River Public lands (ownership) Reclamation districts (incl. levee miles) - Delta Reclamation districts (incl. levee miles) - Delta Statutory Defined Delta Counties - California Teale Data Center Counties - California Teale Data Center CeDR, UC Berkeley Basins - Bay/Delta CEDR, UC Berkeley Watersheds - Bay/Delta Islands Delta CEDR, UC Berkeley CEDR, UC Berkeley	DAVIS, USERVS, USBR Fish and crustaceans Fish and crustaceans DFG IESP (Delta Cutflow/San Francisco Bay/Study) Entrainment of eggs, tarvae and fish (+ physical parameters) Delta Canal Service Areas DFG, DWR IESP (Delta Entrainment and Delta Agricultural Diversion Evaluation) Delta Canal Service Areas CEDR, UC Berkeley San Francisco Bay/Delta Geodatabase County General Plans CEDR, UC Berkeley San Francisco Bay/Delta Geodatabase Farmland (according to importance) Department of Conservation Conservation Monitoring Program Delta (according to importance) Department of Conservation Crop Mapping Program Delta (according to importance) DWR Statewide Planning Crop Mapping Program Delta (according to importance) DWR Statewide Planning Crop Mapping Program Delta (according to importance) DWR Central District Delta (according to importance) DWR Cent	Defta smeit DFG, DWR, UC DAVIS, USFWS, USBR Fish and crustaceans DFG IESP (Detta Cutflow/San Kathy Hieb Francisco Bay Study) Entrainment of eggs, tarvee and fish (+ physical parameters) Delta Canal Service Areas CEDR, UC Berkeley Geodatabase County General Plans CEDR, UC Berkeley Geodatabase County General Plans CEDR, UC Berkeley Geodatabase Farmland (according to importance) Crop types - Delta DWR Statewide Planning Crop types - Central Valley Delta levee maintenance information DWR Central District Delta Gis Program Charter DWR Central District Delta Levees Study Area Bureau of Reclamation DWR Central District Delta levee maintenance information DWR Central District Delta levee maintenance information DWR Central District Delta levee maintenance information DWR Central District Delta Gis Program (SB34) DWR Northern Delta levee maintenance information DWR Central District Delta Gis Program (SB34) DWR Northern Delta levee maintenance information DWR Northern Delta Gis Program (SB34) Chuck Ochonica Reclamation Reclamation fish (**Parmland Mapping and information in train in the parmland in the parmla	DAVIS, USFWS, USFWS, USFWS, USFWS, USFWS, USFWS, USFWS, USF Pan and crustaceans OFG	Delta amelt DFG, DWR, UC DAVIS, USPWS USBR DAVIS, USBR DAVIS, USBRWS DAVIS, USBR DAV	Definition Def	Defa ament DFG, DWR, UC DAVIS, USPNOB, U	Delta senet DERS, DWR, UC IESP DAVIS, US DAV	Data General Service Areas (CEDR, CUC Berkely) Entralement of egge, larves and fair (a physical service) Entralement of egge, larves and fair (a physical se

				ole A-1. Continued	T	4070 4070	14:400 000	IGRASS	T	view on
Geology - Bay		San Francisco Bay/Delta Geodatabase	Foster	12 Bay - Delta countles	raster	1972-1978	1:100,000			<u> </u>
Natural Runoff Coefficient Bay/Delta	CEDR, UC Berkeley	San Francisco Bay/Delta Geodatabase	Howard Foster	12 Bay - Delta counties	raster	1974	1:500,000	GRASS		view or
Precipitation (mean annual) - Bay/Delta	CEDR, UC Berkeley	San Francisco Bay/Delta Geodatabase	Howard Foster	12 Bay - Delta counties	raster	1971	1:500,000	GRASS		view on
Land forms - Yolo Basin	Jones & Stokes	Central Valley Habitat Joint Venture	Bruce Boyd	Yolo Basin	polygon	various	1:24,000	ARC/INFO		N
Soil types - Yolo Basin	Associates Jones & Stokes	Central Valley Habitat	Bruce	Yolo Basin	polygon	various	1:24,000	ARC/INFO		N
Hydric Soils - Yolo Basin	Associates Jones & Stokes	Joint Venture Central Valley Habitat	Boyd Bruce	Yolo Basin	polygon	various	1:24,000	ARC/INFO		N
Historic Meanders - Upper	Associates DWR Northern	Joint Venture SB 1086	Boyd Stacey	Sacramento River from	polygon	1896 - 1992 (?)		Geo/SQL		N
Sacrament River Geology - Upper	District DWR Northern	SB 1086	Cepello Stacey	Verona to Keswick Sacramento River from	połygon			Geo/SQL		N
Sacramento River area Projected erosion rates -	District DWR Northern	SB 1086	Cepello Stacev	Verona to Keswick Sacramento River from	polygon			Geo/SQL		N
Upper Sacramento River Shoreline	District State Lands Commission		Cepello	Verona to Keswick California (including Bay/Delta downstream of	line	various	1:24,000	ARC/INFO		Y
100-year flood plain -	DWR Northern	SB 1086	Stacey Cepello	Sherman Island) Sacramento River from Verona to Keswick	polygon			Geo/SQL		N
Upper Sacramento River 100-year flood plain -	District DWR Delta Planning Branch	North Delta Program	Ray McDowell	North Delta	raster, polygon	1994	1:24,000	GRASS		N
Delta Hydrography - nationwide	USEPA	Reach File 3	Cheryl Henly	Nationwide	line	various	1:100,000	ARC/INFO		N
Hydrography - California	Teale Data Center		Pam Leonard	California	line	various	1:100,000	ARC/INFO		N
Elevation (Digital Elevation Models) -	Teale Data Center		Pam Leonard	California	points	various	approximately 72 m intervals	ARC/INFO		N
California Trace substances	San Francisco Estuary Institute	Regional Monitorinfg Program for Trace Substances (RMP)	Ted Daum	Day/Delta downstream from Sherman Island	point			ARC/INFO	sampling stations only - data with RMP	
Bathymetry - Bay	San Francisco Estuary Institute	Cooctainos (t time)	Ted Daum	Bay downstream from Carquinez Straight	points			ARC/INFO		N
Water quality - Bay/Delta	DWR, DFG, USBR	D-1485 Compliance Monitoring (IESP)	Karl Jacobs	San Pablo Bay - Delta (Point San Pablo - Green's Landing - Vernalis)	points	1971- present	N/A (98 points)	currently not in GIS, can be implemented		in part
Hydrodynamics - Bay	USGS	IESP	Rick Oltmann	San Francisco Bay - Freeport - Old and Middle River	points	1984 - present (Bay) 1992 - presen (Delta)	N/A (16 points)	currently not in GIS, can be implemented		N
Landsat Thematic Mapper image bands 3,4,5 - California	University of California, Santa Barbara	California Gap Analysis Program	David Stoms	California	raster	1991	m cells)	BIP		N
Spotview image (panchromatic)	DWR, DFG, USBR and other state and federal agencies		Paul Veisze (DFG)	California	raster	1992-1994	1:24,000 (10 m cells)	ĺ	no public distribution	N
Digital aerial photography Delta and Suisun Marsh	UC Berkeley	UC Berkeley Digital Library Project	Ken Gardels	Delta (incomplete), Sulsun Marsh	raster	1993	1:24,000	J-PEG	Color Infra Red (Delta), Color (Suisun Marsh)	Y
				Tel 11 5 11	(1004	4.04.000	IGRASS	no nublia dietributian	INI.
Archaeological sites - Delta	Branch	North Deita Program	Ray McDowell	North Delta	points	1994	1:24,000		no public distribution	<u> </u>
Historic sites - Delta	DWR Delta Planning Branch	North Delta Program	Ray McDowell	North Delta	points	1994	1:24,000	GRASS	no public distribution	

lmagery

Cultural resources